

SIA Event: Tree Establishment in Built Environments

An overview of Decisions faced by specifiers today, and a quick guide to options

Tree issues – nature

How trees function in the natural environment – soil, water, oxygen, nutrients

Engineering issues – man made

What are the constraints in the built environment – service infrastructure, people, buildings, roads, traffic

When we bring a tree from natural environment into the built environment, what are the conflicts? Is this a win-lose/lose-win situation? Or is there truly a win-win situation?

There is if the following list is addressed properly, according to current best practise. The points below will be expanded on

- *Soil to grow in – How much/specification Volume, Quality.*
- *Water to feed growth – supplementary irrigation required? How?*
- *WSUD functionality – is the treepit to intercept rainwater for treatment, onsite detention, passive irrigation? How to configure?*
- *Oxygen levels in soil – how ensure soil remains aerated?*
- *Drainage – in what circumstances is it required, and how?*
- *Nutrients – trees need nutrients, and soil in the vault may get depleted?*
- *Tree stability – will my tree get blown around?*
- *Engineering – I want to use space beneath pavements for the treepit, how is this done to satisfy engineers?*
- *Treepit opening – what are the pros and cons of tree grilles vs soft planted opening in pavement? Relative to tree size?*
- *Vandalism – Is it necessary to protect the tree from wilful damage? What are the options*
- *If making a tree vault beneath pavement – what shape and depth is best?*
- *Cost – some projects have greater cost constraints than others, how keep this down?*
- *Design of tree vaults – what are the main systems out there?*
- *Maintenance – trees need ongoing maintenance, is this impacted by use of tree vaults?*

EVENT DETAILS

Date : 14 August 2014, Thursday
 Time : 7.00pm - 9.00pm
(Registration will start from 6.30pm onwards with light refreshment @ Level 4 - Y Terrace)
 Venue : YMCA International House
 One Orchard Road, (S) 238824
 Tan Chin Tuan Function Room 1 (level 4)

(Nearby carparks:

http://apex.sia.org.sg/xshare/YMCA_Carpark_Nearby.pdf)

BOA-SIA CPD : 3 CPD points

Seminar fees : SIA Members* (Complimentary),
 Non Members (\$65.00)
(fees inclusive of GST)

Closing date : 07 August 2014

* For SIA Members whose registrations have been confirmed, attendance is compulsory. Absentee/Cancellations 3 days or less before the event will be charged at \$20.00. Verbal notification of cancellation is not acceptable.

** Registration for attendance of seminar shall be closed 30 mins after the seminar commences.

PROGRAMME SCHEDULE

6.30pm Registration with Light Refreshment
 7.00pm Presentation by **Mr Ben Gooden,**
Managing Director of Citygreen
 8.30pm Q & A
 9.00pm End of event

For more information, please contact SIA (**Ms Jacey Tay**):

Tel: (65) 6226 2668
 Fax: (65) 6226 2663
 Email: cpd@sia.org.sg

Jointly Organized by:



CPD PROGRAMME: 2014/058/MS/JT

GST REG. NO.: M9-0001281-J
 G.N. No. 565 in Gazette No. 27

Speaker profile

Mr Ben Gooden



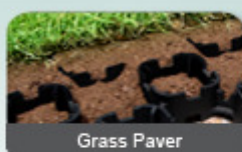
Ben has been passionate about trees and the environment since a child. An avid gardener, with a love of landscaping and the special place that trees have in the landscape, he has gathered seeds from trees, propagated, and planted thousands of trees in his own properties, and for charities. Loves solving design issues, and has designed numerous systems to facilitate successful tree growth in cities. An inventor by nature, Ben has dozens of design registrations and patents in numerous countries globally, with more technological breakthroughs coming. These developments push boundaries in engineering, technology and environmental science – for the benefit of society, greener cities.

Business interests include manufacturing and distribution businesses in Australia, and North America, and licensed manufacturing in United Kingdom.

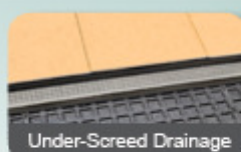
Ben is married with four children, two of which are married and two at home. He has two delightful grandchildren. Travels widely, assisting urban foresters, landscape architects and engineers to incorporate these systems into their designs. Has delivered papers to government agencies and private practises in all major cities in Australia, New Zealand, and many of the large cities in USA and Canada.



Sub-Surface Drainage



Grass Paver



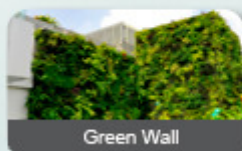
Under-Screed Drainage



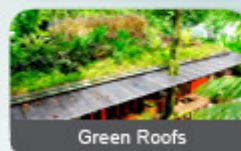
Paver & Bearer Support



Stormwater Tanks



Green Wall



Green Roofs



Slope Protection



Strategic Partner of



Solutions for Sustainable Urban Development

EVENT DETAIL

GST REG. NO.: M9-0001281-J
G.N. No. 565 in Gazette No. 27

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 (Nearby carparks: http://apex.sia.org.sg/xshare/YMCA_Carpark_Nearby.pdf)
 BOA-SIA CPD : 3 CPD points
 Seminar fee : SIA Members* (Complimentary), Non Members (\$65.00) – fees inclusive of GST
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 Verbal notification of cancellation is not acceptable.

Please fax / email the completed registration form to Ms Jacey Tay:

Tel: (65) 6226 2668

Fax: (65) 6226 2663

Email: cpd@sia.org.sg

And follow up with cheque / cash / online payment to Singapore Institute of Architects.

Please tick your mode of payment:

☐ **By Cheque**

Bank/Chq # : _____ Amt S\$: _____

Local Cheque (must be drawn in Singapore) should be crossed and made payable to "Singapore Institute of Architects".

Mail to SIA address:

Singapore Institute of Architects

Eunos Technolink, Blk 3 Kaki Bukit Road 1, #02-01, (S)415935

Please indicate your name, company/institution and course date/title on the back of the cheque.

☐ **By Cash**

You can drop by SIA office to make cash payment between 9.30am – 5.30pm on weekdays.

☐ **By Online Payment**

<http://members.sia.org.sg/payment/sia-20140814.html>

(It is mandatory to provide us with your Receipt ID # after your credit card payment transaction)

Receipt ID #: - - -

Participant's Detail

Organization: _____ Contact Person (if any): _____

Tel: _____ Fax: _____ Email: _____

Receipt Mailing Address: _____

_____ S ()

	Full Name of Participant (as per NRIC/FIN, pls underline surname)	NRIC / FIN #	Email	Amt
1				
	HP #: <input type="checkbox"/> SIA Member, SIA #: [] <input type="checkbox"/> Non Member, BOA # (if any): []			
2				
	HP #: <input type="checkbox"/> SIA Member, SIA #: [] <input type="checkbox"/> Non Member, BOA # (if any): []			
3				
	HP #: <input type="checkbox"/> SIA Member, SIA #: [] <input type="checkbox"/> Non Member, BOA # (if any): []			
4				
	HP #: <input type="checkbox"/> SIA Member, SIA #: [] <input type="checkbox"/> Non Member, BOA # (if any): []			
5				
	HP #: <input type="checkbox"/> SIA Member, SIA #: [] <input type="checkbox"/> Non Member, BOA # (if any): []			
				Total:

**Please take note that all the above fields are mandatory. Incomplete form will not be process.

Cheque payment for this activity should not be combined with payment for other SIA events/courses.

Fees paid are non-refundable under all circumstances. Replacement of participant will be allowed only if written notification is made at least 3 days before the event.

Where a Non-Member replaces a Member (must be from the same Org.) the fee difference will have to be made good to SIA prior to the event.

Registration for attendance of seminar shall be closed 30 mins after the seminar commences.

Registration will be on a First-Come-First-Served basis and will be accepted upon receipt of registration form and payment to SIA. Registration by fax will only be confirmed upon receipt of payment.

Registration Confirmation No.:-